INTERNATIONAL SEARCH REPORT

In: pnal Application No Pc. / IB2004/051939

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H0481/04 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO4B H03F Documentation searched other than minimum document ation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5 404 586 A (ISHIGURO HIRONOBU) 1 - 194 April 1995 (1995-04-04) abstract column 4, line 22 - column 9, line 41 figures 2-8 X US 5 903 854 A (ABE MASAYOSHI ET AL) 1-19 11 May 1999 (1999-05-11) abstract column 10, line 1 - column 11, line 19 figures 9-19 Α WO 02/29969 A (MECK RONALD A; TROPIAN INC 1-19 (US); SANDER WENDELL B (US); SCHELL STEPHA) 11 April 2002 (2002-04-11) the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the International filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim (s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 10 December 2004 19/01/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Tzimeas, K Fax: (+31-70) 340-3016

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